

ROANOKE COUNTY SYSTEM OF ENVIRONMENTAL MANAGEMENT

Objectives and Targets

Significant Aspect:	Vehicle Use
Objective:	Reduction of environmental impact from vehicle use
Target 3.3:	Vehicle efficiency through operational maintenance

CONSIDERATIONS FOR ESTABLISHING THE OBJECTIVE AND TARGET

<u>Policy Component:</u>	Pollution Prevention
<u>Technological Options:</u>	Fleet Management software, on-board diagnostics
<u>Business/Financial Considerations:</u>	Reduce fuel expense, extend vehicle life, facilitate Ozone EAC
<u>Views of Interested Parties:</u>	County employees, citizens, EPA, DEQ
<u>Legal Requirements:</u>	Clean Air Act, VPDES
<u>Significant Aspect:</u>	

ENVIRONMENTAL MANAGEMENT PROGRAM TO ACHIEVE THE OBJECTIVES AND TARGETS:

<u>Person(s) Responsible:</u>	David Anderson, Dept. Heads
<u>Date Due:</u>	Begin pilot project with RE & GS vehicles 7/1/03

<u>Means:</u>	Existing vehicle maintenance funds
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<u>Methods:</u>	Performed during scheduled maintenance
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Significant Aspect Requirements:

1. Monitor/Measurement Method: Fuel consumption MPG, On Board Diagnostics
2. Operational Control Procedure: Using available technology, perform maintenance and inspections of County Fleet at optimal intervals so as to increase fuel efficiency, reduce exhaust emissions and eliminate fluid leakage.
 - a. Perform routine inspections on County vehicles at 3,500 to 6,000 mile intervals as appropriate.
 - b. Monitor vehicle fuel consumption MPG in fleet software via quarterly report, follow-up on all out of norm performance with inspection/tune-up.
 - c. Maintain optimal tire pressure in all vehicles at all times.
 - d. Meet or exceed manufacturer's tune-up intervals.
 - e. Prioritize surplus of all carbureted vehicles via vehicle replacement committee.
 - f. Run available on-board diagnostics checks during scheduled maintenance.
 - g. Gasoline tune-ups to include: new spark plugs, air filter, fuel filter, EGR valve, PCV valve, check for vacuum leaks, check/clean throttle body plate, check fuel evaporative system, plug wires, rotors, etc.
 - h. Diesel tune-ups to include: scan OBD II Generic diesels, check timing/injections pumps, replace fuel and air filters.
 - i. Check vehicles for fluid and lubricant leaks during scheduled maintenance and replace bad gaskets and seals.
 - j. Check older vehicle air conditioning for refrigerant leaks (R12 & 22) during scheduled maintenance.

3. Competence of Personnel Who May Create a Significant Impact:

ASE Certified Auto Mechanics

Date Created:

5/6/03

Date Reviewed:

Reviewer Rating: